

SECTION 4.0

USER AND OPERATOR DEFINITION (Annotated Outline)

This section contains the formal documentation of the operational analysis.

Inputs: The primary input to this section is the operational analysis. Applicable documents include 1, 6, 9, 13, 18, 25, 26, and 29. However, no true operational analysis has been completed or documented in part or in full in any of the available documentation. Significant reverse engineering must be performed to create this section.

4.1 Operator Profile: This paragraph shall state those characteristics required for or demonstrated by the operator of the system. Use the present system as a baseline and adapt to the proposed system. Extension of the operational requirements and operator profiles developed at top level as part of the FEDSIM Task 16 work completed will need to be performed. Continuing discussions with ATR will also provide additional information and refinements.

4.2 User Profile: This paragraph shall state those characteristics required for or demonstrated by the user of the system. Use the present system as a baseline and adapt to the proposed system. Document #18 should be applicable here. In addition, the extension of the operational requirements and operator profiles developed at top level as part of the FEDSIM Task 16 work completed will need to be performed.

4.3 Man-Machine Interface: This paragraph shall state the human factors requirements for this system. Human factors requirements should be stated in this section. Use documents 13 and 26 to the extent that they apply and also use the present system descriptions. Some information exists in the story boards prepared as Task 17; however, operational MMI descriptions for the ATC and pilot positions will need to be re-documented, revised and otherwise modified to represent the variety of users MMI interfaces. The work accomplished as Task 17 only addressed air carrier operators and controller working positions, not other pilot operators and traffic management positions MMI requirements which differ from ATC and air carrier pilot MMI requirements.

4.4 Support Personnel/Procedures Profile: This paragraph shall state those characteristics required for or demonstrated by the support personnel (or support procedures) for the system. Required system support/maintenance characteristics and associated procedures should be identified in this section. No

available documentation applies to this section. The best that could be done is to use today's system as a baseline and to modify it for the proposed system--no engineering data exists in a documented format to support this subsection. Interviews and informal surveys may have to serve as the initial data to develop this section and will need to be conducted to complete the task.

4.5 Screen/Console Interface Definition: This section should identify changes from the present system that will be effected by the proposed system and should discuss the rationale for and advantages of those changes. Document 3 contains some material pertaining to screens. Additional information and clarification of assumptions used by FEDSIM in the development of the story boards will need to be obtained.